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City of Miami Beach, 1700 Convention Center Drive, Miami Beach, Florida 33139, www.miamibeachfl.gov LTC No. 229-2013

LETTER TO COMMISSION

TO:

Mayor Matti Herrera Bower and Members of the City Commission

EDOM.

Jimmy L. Morales, City Manager

DATE:

July 3, 2013

SUBJECT: SEWER FORCE MAIN BREAK/SEWERAGE RELEASE

An advisory was issued by the City of Miami Beach warning recreational users of Collins Canal, Indian Creek, and Biscayne Bay along the western shoreline of Miami Beach from Government Cut to Kennedy Causeway on Tuesday afternoon due to a suspected sewer force main failure in the vicinity of Convention Center Drive and Meridian Avenue.

On Monday afternoon, June 24th, at approximately 3:15 pm, the Public Works Operations control room noticed an increase in pressure in the wastewater system at several pump stations. Within an hour, the cause was determined to be that the contractor working for the Miami-DadeCounty Water and Sewer Department (WASD) had closed a valve in the vicinity of Alton Road and Commerce Street. Unfortunately, the valve stem broke making the valve inoperable which required that the valve be excavated to be able to open it. By 4:45 pm, the system pressures were dropping and returning to normal operating levels.

On Tuesday morning, June 25th, at approximately 7:30 am, complaints were being received of sewer odors just north of the Botanical Gardens between Convention Center Drive and Meridian Avenue. Initial investigations pointed to an older section of a 30 inch force main with the observance of sewerage in Collins Canal. The main pump station that was contributing to that force main was Pump Station #28 so flow was diverted to a parallel 42 inch force main.

Several agencies including WASD met on site at 3:30 pm and preparations were made to have their contractor mobilize and commence with immediate actions to isolate the broken pipe and stop any release of sewerage. The Department of Environmental Management (DERM) was also on site and took samples for water quality analysis.

Further evaluations actually identified the location of the broken pipe to be closer to 17th Street just to the west of City Hall. The reason the release appeared in Collins Canal was that the break was located where the force main penetrated a box culvert in a specially designed conflict structure. The box culvert carries stormwater and discharges at the canal.

By 7:00 pm, the contractor was mobilized and began excavating the force main adjacent to 17th Street to install an isolation valve. The installation of a valve would permit an isolation of the broken pipe and permit time to evaluate and fix the break once it was located. The valve was in place by 8:00 am on Wednesday, June 26th.

The City's waterway contractor was dispatched to Indian Creek to remove any floating material. The contractor was mobilized by 9:00 am on Wednesday morning. Approximately 70 gallons of fish, organic debris, fecal matter, soda cans, plastic bottles, and diapers were collected and properly disposed. The majority of the material had collected in the Lake Pancoast area, but Indian Creek up to 69th Street was cleared of all debris.

DERM provided daily sampling throughout the week and reported the attached results 24 hours after sampling. The samples were indicative of a release and a progressive reduction in contamination levels consistent with such an event. During a conference call with DERM on Saturday, June 29th, the results from Friday were discussed. The bacterial concentrations at all stations were well below the regulatory limits. As a result, all advisories were lifted as of Saturday afternoon, and all sampling associated with this event had been suspended.

The broken force main installed in 1945, is within a rectangular drainage culvert, which was installed in 1956. An exploratory excavation revealed that the force main ruptured when a piece of pipe approximately 8 inches in diameter blew out within the culvert crossing. Public Works is currently working with the contractor and their engineer to evaluate plans for the permanent repair of the pipe. It is anticipated that the work will be completed by July 12th.

WASD has supplied the parts necessary for the repair and their contractor has performed all of the necessary construction to date and is expected to complete the work. Once a final determination is made as to the cause of the rupture, the costs will be allocated appropriately.

Should you have any questions or comments, please do not hesitate to contact me.

Attachment: Results of the surface water quality sampling associated with a non-permitted waste water discharge

JLM/NOME C/JJF/AK

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Results of Surface Water Quaity Sampling asssociated with a non-permited waste water discharge

Event Name:

June 25, 2013 Date of Discharge:

Approx. Convention Center Dr. & Dade Blvd., Miami Beach 108,000 gallons Address/Location:

Impacted Water **Estimated Vol:**

Collins Canal, Indian Creek, Biscayne Bay

Bodies:

All Samples are collected as 'surface grab' samples, using 125 ml certified sterile containers, and collected in accordance with applicable sections of "Department of Environmental Protection Standard Operating Procedures for Field Activities FDEP-SOP-001/1" (2008)

SAMPLING RESULTS

Enterococcus

Coliform Fecal

June 28th

7

2

260 <10

Sampling Date -->

Enterococcus 100 820 30 20 Coliform June 25th Fecal 910 180 960 2 Sampling 15:45 16:07 15:30 16:20 15:55 Time SS SS SS SS S SS SS SS S G13-4 G13-6 G13-9 G13-11 G13-13 G13-15 Current station G13-1 G13-2 G13-3 G13-5 G13-10G13-14 G13-2a G13-7 G13-8 G13-12

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Entero- coccus	210.	70	10	<10	<10	10	10	30	80	130	1,900	10	20	2	46	
Fecal	3,100	510	170	<10	<10	80	<10	N/A	640	260	2,500	N/A	N/A	N/A	N/A	-
Sampling Time	10:15	9:55	9:35	10:35	10:50	9:55	10:15	10:40	10:25	10:45	10:30	11:15	11:40	12:30	12:15	NS

	Samplin	Time	11:00	11:15	NS	NS	NS	10:00	NS	SN	10:30	10:40	10:50	· SN	NS	NS	NS	NS	
	Entero-	coccus	120	<10	10	<10	10	<10	<10	•	10	. 180	<10		٠	•	•	-	
June 27th	Fecal	Coliform	220	30	20	<10	20	<10	<10	1	<10	320	40	-	-	-	-		
	Sampling	Time	10:10	9:50	9:30	10:20	10:35	9:20	9.45	NS	10:05	10:45	10:20	NS	NS	NS	NS	SN	

<10

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State Standard for Fecal Coliform in any single sample <= 800 cfu/100ml

EPA single sample guideline Enterococcus in recreational, full body contact, saltwater is <104 cfu/100 ml

EPA single sample guideline Enterococcus in recreational, full body contact, freshwater is <152 cfu/100 ml

Results recorded with a "<" symbol indicate the parameter was not detected in the sample (i.g., below the Method Detection Limit)

Sample Result Qualifiers and Notes

Q = sample qualified (out of holding time)

B = Confluent colonies; any value given is minimal estimate

INTC = 'Too Numerous To Count'; numerous confluent colonies; numeric estimate not possible

= preliminary results

n/a = not available

n/s = not sampled

snp = sample.collected but not processed

RED Sta

Collected by DOH